POLICE HEADQUARTERS JAMMU AND KASHMIR, JAMMU
Phone/Fax No: 0191-2459255
0191-2459029/
(Provision Section)
www.jkpolice.gov.in
Email:phqjk@jkpolice.gov.in

NIT NO: 13 of 2019
DATED: 11 .02.2019

For and on behalf of the Governor of Jammu and Kashmir State, e-tenders are hereby invited from original manufacturers or their authorized dealers having proper authorization of the manufacturer to quote against the tender for the supply of **"CRITICAL CARE AMBULANCE" AND "MORTUARY VAN" (HEARSE VAN)** (as indicated in the detailed SBD & BOQs). The download of NIT shall start on **11 .02.2019 at 1500 hours.** Tenders shall be submitted online on J&K State e-procurement portal www.jktenders.gov.in up to **26 .02.2018** before 1800 hrs.

A Pre-bid conference shall be held on 20 .02.2018 at 1500 hours in PHQ, J&K Jammu to clarify the queries of prospective bidders if any. The intending bidders should attend said conference to clarify matters related to this tender enquiry if any.

The tenders (technical bids only) will be opened on-line on **20.02.2019 at 1100 hours at Police Headquarters J&K, Jammu.**

Detailed tender documents (SBD) with terms and conditions are available on J&K State e-procurement Portal www.jktenders.gov.in.

Mubassir Latifi, JKPs
AIG (Provision & Transport)
For Director General of Police
J&K Jammu
Dated: 11 .02. 2019

No: Prov-II/HE-29/2018-19/ 10479-91

Copy to the:-

1. Principal Secretary to Govt. Home Department J&K Jammu for favour of information.
2. All ADsGP/ All IsGP for information.
3. IGP Technical Services J&K Jammu for favour of information.
4. DIG CKR/ Srinagar/DIG JK Range Jammu
5. Director Industries Jammu/Srinagar for information and n/action.
6. FA/CAO PHQ Jammu for information.
7. AIG (Communications) PHQ J&K Jammu along with 02 copies of the gist of e-tender for publication, in two widely circulated National and 02 widely circulated State Dailies through information Deptt.
8. Manager Govt. Press Srinagar/Jammu for publication of e-tender in Govt. Gazette.
9. SSP J&K CID Cell, 11 Harish Chander Mathur Lane Kasturba Gandhi Marg New Delhi-110001 of the inviting tenders.
10. Medical Superintendent, Police Hospital Srinagar/Jammu /In-Charge PCS Zewan Srinagar/PCS Gulshan Ground Jammu.
11. S.O e-procurement, PHQ/ IT Centre PHQ for placing the e-tender on the website of J&K Police and J&K Govt. Portal.

AIG (Provision & Transport)
For Director General of Police
J&K Jammu

(1)

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NIT NO. 13 of 2019
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1. For and on behalf of the Governor J&K State, e-tenders are invited from original manufacturer or their authorized dealers having specific authorization from their original manufacturer/s t quote against this tender for the supply of**"CRITICAL CARE AMBULANCE" AND "MORTUAR VAN" (HEARSE VAN)** (as detailed in **Annexure 'A'** to this NIT. The NIT consisting of Qualifyin Information, Eligibility Criteria, Specifications, Bill Of Quantities (BOQ), set of Terms An Conditions of the contract and other details can be seen/downloaded from J&K State e procurement portal www.jktenders.gov.in **from** 11 **.02.2019 at 1500** hours and submitted onlin up to 26 .02.2018 **up to 1800 hours.**

   A Pre-bid conference shall be held on 20- **.02.2019 at 1500 hours in PHQ Jammu to clarify the queries of prospective bidders if any. The intending bidder should attend said conference to clarify matters related to this tender enquiry if any.**

   Note;- Only those firms are allowed to respond who are capable to execute the projec within shortest possible time to be specified which shall be decided after evaluating Annexure-II

2.

Time/date and place for online opening of technical bid only.	On 28 **02.2019** at 1100 hours at J&K Police Hqrs. Jammu.
Validity of tender offer	1. Up to 31.03.2020 31-03-2020 ✓

3. All tender documents attached with this invitation to tender including the specifications are **SACROSANCT** for considering any offer as complete offer. It is important that scanned copy of each page of the TENDER DOCUMENT DULY completed, page numbered and signed is uploaded with your offer in a sequential manner and not haphazardly.

4. The tender fee has been fixed as Rs100/-only for SSI units of J&K State and all other vendor have to deposit Rs. 2000/-(to be deposited in J&K State government Treasury Under object Head 0055-Police 2018-19) & the same is n on refundable. Treasury Challan should compulsorily mentioned (i) Name of the firm (depositor) (ii) Tender No.(iii) Date of opening of tender & Scanned copy of the treasury challan be uploaded with the tender. However the Govt/Semi Govt. concerns of the J&K state claiming exemption of tender fee shall append authenticated orders, certificates etc. Issued by competent authority in support of their claim. However, granting exemption from furnishing of tender fee shall be at the sole discretion of the DGP J&K Police or any officer authorised on his behalf. Tenders without stipulated tender fee shall be rejected.

5. **Earnest Money Deposit (EMD)**
   The intending tenderers will have to upload scanned copy of Earnest Money Deposit in the shape of Call Deposit Receipt valid at call or FDR/Bank Guarantee valid till 03.06.2019, from any Nationalized Bank/ State Owned Banks for an amount of **Rs. 2,00.000/-(Rs Two lakh only)** pledged to **AIG (Prov/Tpt) PHQ J&K** with the tender offer. However, the successful tenderer would have to deposit the Earnest Money **in original, with Police Hqrs J&K before allotting the work or issuing the supply order.** The **EMD** of successful tender will be adjusted towards the security money (required to be deposited) on application, for due performance of the agreed contract/performance during the warranty period. No interest shall be pay able by the purchaser on the EMD deposited by the tenderer.

J&k Govt. rules with regard to furnishing of **EMD** in respect of **local Registered SSI Units of J&K Stat shall be applicable in letter and spirit.** Tenders without EMD shall be rejected.

6.

i) Delivery required	Approximately within 30 days from the date of issue of supply order.
ii)Inspection authority/place of survey	Survey to be conducted by the Board of Officers to be constituted by the J&K Police Hqrs separately.
vii) payment terms	i. Payment shall be released by the department after completion of survey/inspection report by the Board Of Officers constituted by the PHQ J&K. ii. Rates quoted by the firm should be on firm price basis i,e including GST if any. iii. If approved supplier backs out or fails to supply against supply order within stipulated delivery period, the department will be at liberty to procure the item from L-2 firm and differential amount between L-1 & L-2 rates will be deducted from the security deposit furnished by the approved supplier and remaining security deposit will be forfeited besides invoking other remedies which shall include black-listing of the firm etc.

7. Rate quoted by the firms should be on firm price basis.

8. Firm shall clearly indicate different taxes, duties, charges which they proposed to charge as per the format of Bill of Quantity (BOQ) available with the e-tender,

9. No conditional tender will be accepted/entertained. It will be summarily rejected.

10. Department reserves the right to change the quantity of stores allotted to them.

11. Purchaser reserves the right to get the manufacturing capacity of all the firms re-verified irrespective of the registration status or any other document/information.

12. Department reserves the right to cancel /reject or scrap the tender, with no consequential liabilities.

13. **Two bid system;**

All bidders are required to submit their offers in two covers online as under;-

(A)**First cover (Technical Bid) is to be uploaded online and scanned copies in PDF format** should contain the following documents.

(i) Tender documents (viz. Technical compliance, broachers/catalogues of the quoted items containing make and model of the item, OEM/authorization certificate, registration/existence certificates of the firms/SSI Units and performance etc) duly page numbered completed and signed **BUT WITHOUT INDICATING THE RATES QUOTED**.

(ii) Scanned copy of the Earnest money

(iii) Scanned copy of the tender fee.

(iv) Technical specifications of the items quoted with catalogues/broacher etc. and deposition of samples, (wherever asked).

(v) Registration certificate/industrial license of original manufacturer, with due validity for the items Quoted.

(vi) Certificate of being authorized dealer having proper and specific authorization (**as per format Provided in Appendix-1**) of the original manufacturer to quote against this tender.

(vii) Authorized dealer having authorization to quote against this tender, shall furnish his registration Certificate with central/ state sale tax department for that particular item.

(viii) Scanned copy of the NIT, all pages duly signed and stamped by the tenderer, in token of having Understood and accepted the specifications, terms and conditions of the NIT .

(ix) Self attested scanned copies of Income Tax Return for the last 03 financial years 2015-16,2016 17, &2017-18 years along with latest tax clearance certificate.

(x) Performance statement/turn over for last 03 years as **appendix-III** of this NIT.

(xi) Chartered accountant dully vetted financial statements comprising of P2L A/C balance sheet for the 3 financial years 2015-16,2016-17 & 2017-18.

(xii) VAT clearance certificate up to 06/2017 and GST latest return up to 3/2018

(xiii) Acceptance of the warranty/guarantee of the item.
(xiv) Acceptance regarding execution of work within the stipulated time frame.
(xv) PAN No./GST/TIN No. self attested photocopies thereof be appended.
(xvi) Check list for tenders as per appendix-III of this NIT.
(xvii) Any other relevant document which the firms wishes to submit

B. **SECOND COVER (COMMERCIAL/PRICE BID) SHOULD CONTAIN THE FOLLOWING:**

I.	Rate quoted by the firm should be on firm price basis as per bill of quantities (BOQs) of the e-tender to be downloaded from the website and Rates should be carefully quoted offline and then uploaded (Note); J&K Police do not issue road permits, concessional forms, state entry tax or octroi etc. exemption certificate, as such; Rate quoted shall be F.O.R consignee. **The zero basic cost quoted for any item in BOQ will be treated as nil quoted.**
II	Rates quoted shall be final till the validity of the contract i.e. up to **30.06.2019** with a provision of further extension if finally approved by competent authority.

14. On due date of opening of tenders i.e **.02.2019 at 1100 hours**, technical bids only shall be opene and the technical evaluation process will start. Those who qualify the technical bid will be informe online with the announcement of financial bid opening date.

15. **Security Deposit**. The approved tenderers will have to supply the articles as per approved rate approved sample and specification till the validity of the contract. They will have to furnish the **securit deposit @ 5%** of the total value of the items contracted for and for **DGS&D rate contract base supplies, the security deposit will be 2%** in the shape of CDR/FDR valid till completion of contract issue by a nationalized/scheduled bank, at the time of signing of **Deed of Agreement** to ensure satisfactor performance of the equipment supplied, for warranty period from the date of acceptance of product This security deposit will be released in due course after the expiry of specified warranty period/agreed contract. The charges on stamps etc. (cost of documents in totality) shall be borne by the supplier while executing the agreement. (No interest shall be paid by the purchased on the security deposit). J&K Govt rules for security deposit in respect of local SSI Units shall be applicable.

16. **Guarantee/warranty.**
Except as otherwise provided in the invitation to the tender, the contractor hereby declare that the article, goods ,stores sold/supplied to the purchaser under his contract shall be of the best quality and work man ship and new in all respects and shall be strictly in accordance with specification and particulars contained/mentioned in the contract. The contractor hereby guarantees that supplied goods/stores articles would continue to confirm to the specification and quality for a period of 36 months from the date of acceptance. If during the period of 36 months supplied articles have deteriorated, the decision of the purchaser in that behalf shall be final and binding on the contractor and purchaser shall be entitled to call upon he contractor to rectify/replace the articles or such portion thereof by the contractor and in such an event, in above mentioned warranty period shall apply to the articles/replaced from the date of rectification/replacement thereof. In case of failure of the contractor rectify or replace with the articles etc within specify time the purchase shall be entitled to recover the cost with all expenses from the contractor for such defected articles by the available means

17. **Liquidate Damages**: The successful tenderers shall have to make the supplies within the stipulated period as would be mentioned in the supply order. J&K Police reserve the right to impose liquidity damages up to 5% of cost of un-supplied stores which shall depend upon the nature of supplies and extent of delay. However, period of delivery may be extended, at absolute discretion of J&K Police provided the delay is attributable to reasons beyond the control of the supplier but not attributable to business transactions and provided delay is communicated in writing justifying the cause of delay. Without prejudice to the aforementioned penalty clause.

18. The supplies delivered by the successful tenderer shall be surveyed and verified by the J&K Police at Police Central Stores Srinagar or after installation/commissioning of the same at the users end as the case may be.

19. As soon as the acceptance of the tender is communicated to the successful tenderers online, the

Contract shall be binding on him. The EMD of the tenderer who backs out or withdraw his tender c fails to abide by it after acceptance thereof is communicated/posted to him shall be forfeited beside other penal remedies that may be available to the Govt. of the J&K under the law for the time being i force in the State of J&K.

20. The successful tenderer shall have to enter into an agreement on prescribed proform (immediately after the issue of supply order) with the Department for due performance of th contract which shall be invariably furnished before the supply is made.

21. The tenderer is required to furnish an authenticated copy of VAT clearance certificates upt 6/2017 (along with the tender offer or at the time of payments) and latest GST retur certificate for **the year 2018-19** or a year earlier. The PHQ shall be at liberty to put to scrutiny verification etc. the GST clearance so furnished by the successful tenderer.

22. The authorities reserve absolute powers to reject or accept any tender or part thereof withou assigning any reason and without any legal obligations. Any clause incorporated in the tende (not conforming to the NIT in any manner) shall make such an offer liable for rejection Therefore, all the terms and conditions of the tender notice including technical specification shall be carefully studied for the sake of complete and comprehensive tender. Failure to comply with any of the conditions stipulated in the tender or instructions or the offer with insufficient particulars/documents shall lead to out-right rejection of the tender offer.

23. After the registration/placement of orders/execution of the agreement and formally depositing the security money, the tenderer backs out or fails to supply the goods, **the security deposit will be forfeited besides any other penal provisions, the department may decide as per norms;**

24. The formal deed incorporating the terms of the contract will be executed by the successful tenderer immediately after receipt of supply order. Failure to execute such bond/deed shall not however prevent the contract from being enforced against the tenderer. Any loss sustained by the Govt. as a result of re-tendering the contract shall be recovered from the defaulter, besides other penal provisions as the department may decide.

25. **Delivery of Goods**
The goods shall be delivered (as per instructions in supply order) at Police Central Store, Zewan Srinagar, in perfect condition. The supplier, if desires may insure the goods against loss or theft, destruction, damages by the natural calamity loss by exposure to weather or otherwise viz war rebellion, riot etc. The insurance charges will have to be borne by the supplier and the department shall not pay such charges.

26. If the successful tenderer fails to supply the goods of the prescribed specification or fails to deliver the goods within the stipulated period as specifically mentioned in the supply order, the department shall be at liberty to arrange supplies by re-tendering or otherwise at the risk and cost of the tenderer. The department may give 15 days' notice to the approved supplier in writing to make supplies of goods. In case of failure to supply the consignment on specified qualitative & quantitative terms, the department shall be lawfully entitled to forfeit the amount of the security money and take penal action to make good the loss sustained or excess cost incurred by the state in arranging of the supplies and other remedies that may be available to the department, under the law for the time being in force in the state. The imposable penalty can be 5% of the cost of goods depending upon nature of goods and cause of delay.

27. Either original manufacturer or his authorised dealer can participate for a particular item only. Tender offers where both original manufacturer and his authorised dealer participate for the same items shall be rejected.

28. If at any stage of tender process two or more bidders are found in collusion between/ among themselves with the intent to reduce competition, set price, share technical expertise, share business information/ decision, control/share production and or distribution of products and raise prices, all such tenders shall be out rightly rejected.

29. If at any stage of tender process any bidder/s is/are found influencing any Government Servant associated with or handling the tender process and supplies thereof, bid of such tenderer/s shall be rejected besides invoking any other provision available under rules.

30.	In case it is observed at any stage that approved supplier has supplied same item on less rates to som other Government/Non Government Organization than the rates charged to J&K Police, in that case th department shall initiate suo-moto action against the supplier for supplying item on higher cost to th department and shall proceed under law to recover the excess amount charged to the departmen besides other action against supplier under law.
31.	All legal proceedings arising out of any dispute between the parties shall have to be settled in the Cour situated in Srinagar and Jammu not elsewhere;
32.	It shall be incumbent upon the supplier to provide entire supply, in conformity with the approve sample, strictly as per the specifications provided in the NIT/supply order. Supplies found deficient i quality/quantity viz-a-viz supply order shall be rejected. Penalty/damages would be imposed an recovered from the bidder as per terms and conditions indicated in the supply order.
33.	The supplier shall not sublet the contract or any part thereof to any other agency.
34.	The decision of the accepting authority shall be final as to the quality of stores and shall be binding o the supplier. In case the article, goods ,stores sold/supplied to the supplied are not according to th approved specifications they shall be rejected and at our absolute discretion, rejected stores may b allowed to be made good by way of replacement. The loss caused due to rejection of the supplies sha be entirely borne by the supplier. The rejected article, goods ,stores sold/supplied shall be lifted by th supplier within one week from the date of rejection. The department shall in no case be responsible fo any loss or damage that may occur to the rejected stores while these are in the premises of th purchaser.
35.	The Department reserves the right to add or suitably modify the terms and conditions (without prio notification) as per exigencies and hence above shall not be construed as all inclusive.
36.	Bidders submitting their bids on-line shall only be accepted and manual bids shall be rejected and nc document other than mentioned in the NIT shall be accepted manually.
37.	PHQ may call any bidder at any stage of the tender process for seeking any clarification.
38.	Queries/ representations on tender enquiry should receive upon pre-bid conference or within 10 days from the date of publication of this tender enquiry (whichever is earlier) would be entertained. Al queries/representations received after pre-bid conference would not be entertained.
39.	The bidder should furnish an undertaking APPENDIX-II of this NIT stating that he/ she is not connected in any manner with any other bidder in this tender with respect to manufacturing, distribution, supply, in sharing business information/documents price of the item etc. for the items quoted in this bid. If this is found to be incorrect, his/her tender would be rejected.
40.	The detailed NIT, SBD and BOQ is available on J&K State e-Procurement portal www.jktenders.gov.in. In case of any clarification, please contact on Phone no. **01942443031, 01912459255**
41.	All pages of your technical/pre-qualification documents must be clearly page marked at bottom centre of each page before scanning the same and uploaded to e-tendering portal.
42.	No duplicate documents/pages shall be uploaded by the bidders against e-NITs.
43.	Documents to be scanned, converted to pdf format and subsequently uploaded to the portal must be scanned at 200 DPI (dots per inch) resolution/scale.
44.	Tender Fee and EMD documents must be scanned and placed in separate pdf files.
45.	Bidders are advised not to upload any irrelevant/unnecessary documents against e-NIT's
46.	Bidder shall also quote AMC for five years beyond the period of mandatory warranty. However the AMC cost shall b reckoned while determining the L-1 which will be determined on the basis of the cost of the quoted items.

Mubassir Latifi, JKPS,
(AIG Provision/Transport)
For Director General of Police,
J&K- Jammu

APPENDIX-I

Reference e.NIT No 13 of 2019 dated 11.02.2019.

To,

The Director General of Police
J&K, Jammu.

Sir,

1. I_____ hereby state that I am not connected in any manner with any other bidder in this tender in sharing business information/documents and price quoted in this bid.

2. I further state that if this is found to be correct, the police department is at liberty to reject my tender.

3. I further certify that my concern has neither blacklisted nor banned by any central or state organizations to participate in tendering process.

Yours faithfully,

Signature with date, name and designation
For and on behalf of M/s_____
(Name and address of the tenderer)

Note;-

a. This undertaking should be on the letter head of the tenderer firm and should be signed by the authorized person.
b. Scan copy of the original letter must be attached with tender documents.

APPENDIX-II

Performance statement for last two years

Name of the firm	
Description of work executed	
Quantity on order	
Value	
Original execution period	
Whether executed in stipulated time frame or other wise	
Extension sought for final execution	
Reasons for delay in execution (if any)	
Past performance in % age upto1 / 2 crores	
Past performance in % age above 2 crores	

Signature of Tenderer

APPENDIX-III

Performance statement for last two years

Name of the firm	
Description of stores	
Quantity on order	
Value	
Original D.P	
Quantity supplied within original D.P	
Final Ext D.P.	
Last supply position.	
Reasons for delay in supplies (if any)	

Signature of Tenderer

APPENDIX-IV

General instructions/CHECK LIST FOR TENDERERS;

Before submission of tender documents, the tenderers should check whether they have complied with the following requirements or otherwise;-

S.No	Requirement to be checked before submission of the tender	Complied (Please indicate YES or NO after complying with the requirement.
1.	The tenderers for their own ease shall fill in relevant details of NIT offline & upload the same after ensuring accuracy	
2.	Whether tender fee scan copy is enclosed, with the technical bid?	
3.	Whether Earnest Money Deposit (EMD) scan copy is enclosed with the technical bid?	
4.	If an SSI Unit of J&K State, the same is indicated in the tender and scan copy of the valid registration/functional certificate is enclosed or not?	
5.	Whether scanned copies of complete tender documents are up-loaded in the technical bid duly signed having official seal on all pages or not. However, the quoted items may also be ticked?	
6.	Whether tender documents are submitted in two bid system i.e. Technical and Financial Bids separately as per tender enquiry or not?	
7.	Whether offer validity as required in tender enquiry is accepted and indicated in your tender document or not?	
8.	Whether terms of delivery and period as required in tender enquiry is accepted and indicated in your tender document or not?	
9.	Whether payment terms as required in the tender enquiry is accepted and indicated in your tender document or not?	
10.	Whether performance statement for last 2 years as required in tender enquiry in the format is enclosed or not. If not, reason thereof is given?	
11.	Whether warranty period as required in the tender enquiry is accepted or not?	
12.	Whether details of AMC condition after warranty period (wherever applicable) is included in the price bid or not, if required in the tender enquiry?	
13.	(a) Status of tenderer as to whether manufacturer or authorized agent of the manufacturer is indicated in the tender document. If authorised agent/dealer, valid authority letter for the stores offered from the manufacturer is enclosed or not. (b) If an Indian agent of foreign principal, whether the firm is enlisted with DGS&D under compulsory enlistment scheme or not. Copy of valid DGS&D enlistment certificate as Indian Agent of Foreign Principal is enclosed or not. If not, reason thereof is given in tender document or not?	
14.	If called for in the T.E. whether acceptance of functional demo/field trial clause, (whenever asked) is specified in your tender document or not?	
15.	If called for T.E. whether free training about use of equipment after supply, is accepted or no?	
16.	Whether indicated in the tender document, if your firm's business dealings is banned by any Govt/Private agency or recommended for blacklisting or not?	
17.	The complete commercial quote should be in Indian Rupees only. Currency of price should be clearly mentioned (wherever applicable).	
18.	Tenderers are required to indicate Basic Rate, Custom Duty, Excise Duty, Sales Tax/VAT and any other legible taxes/charges separately in the relevant columns of the BOQ.	
19.	Tenderer will attach justification of price quoted which should include the recently executed contracts of the store in question with Govt/Semi Govt Organizations etc.	
20.	No column should be left blank. Wherever amount is not quoted, the column should be clearly marked as 'Nil".	

Signature of the tendere with seal

metallic conduit.

Emblems, Marking & Colour Scheme

Complete body exterior should be uniform white in colour. All external marking should be retro- reflective in nature and materials used for the same should meet or exceed the requirements of ASTM D 4956, Standard Specification for Retro-reflective sheeting for Traffic Control, Section 6.1.1 for Type I Sheeting.

Operating Manuals, etc.

Comprehensive User Manual/s written in simple English with detailed parts description, operating instructions, service contact numbers, etc for the Base Vehicle, Patient/Driver Compartment Equipments, Fittings, etc shall be provided. These should be printed on high quality paper and housed in water-resistant pouches.

Laminated sheets, clearly showing the Patient and Driver Cabin Layout with location of equipment, fittings, switches, consumables, etc suitably depicted should be fixed in the patient and driver cabin at suitable locations. Laminated sheet showing the OEM and non-OEM electrical wiring diagram complete with location of various fuses and circuit breakers should be displayed in the vehicle at a suitable location.

Layout Drawings

The bidders must provide 2D & 3D rendered drawings for all types of quoted Mortuary Van Showing location of various components, sub-assemblies for structure, interior layouts, fitment of refrigerated Box non-OEM electrical system layout, etc along with the technical bid.

EQUIPMENT FOR Mortuary Van

S. No.	Name of Equipment	Specifications
1.	Refrigerated Dead Body Box	• Made of minimum SS204 Stainless Steel • Should be able to maintain minimum temperature of -8 to -10 • Detachable transparent cover for dead body compartment. • Should have wheels so that in emergency it can be removed from mortuary Van • Should consume less than 2KW of power. • Should be operative in extreme climatic conditions (-15 to +50 deg Celsius)
2.	**Genset**	• Noiseless of minimum 2 KWA and as per mortuary cabinet load. • Should have service facility in state. • Should be operative in extreme climatic conditions.
3.	**Water Dispenser**	• Minimum of 10 Liter capacity • Should be from reputed manufacturer

Air-Conditioning

The Mortuary Van should be supplied with factory fitted Air Conditioning unit. The engine idling rpm should be so designed and tuned to full fill the requirements of AC Unit. To ensure proper ventilation in case of AC failure, at least two of the patient compartment windows should be openable when required. In case the factory fitted AC unit is free flow the same should be converted to centralized ducted Air conditioning system for uniform air flow and cooling throughout the cabin

Interior Compartment Illumination:

There should be diffused flicker free automotive grade (12V, minimum 4000 deg Kelvin) lighting in the compartment. All interior lighting shall be flush mounted and should not get loose or fall down during vehicle movement or vibration.

Electrical System

There shall be two independent forward electrical circuits in the Mortuary Van: the OEM-Base Vehicle Circuit and the non-OEM electrical circuit. At no point shall the forward OEM base vehicle circuit be tampered with to provide for any non-OEM electrical load requirements.

Each Mortuary Van should have additional 'supplementary battery(s)' sufficient enough to power the non-OEM electrical load requirements of the vehicle. These batteries should be located at a suitable location outside the compartment and should be automatically charged by the vehicle supplementary alternator while the vehicle is on and via 220V external AC supply if connected when stationary.

A permanently fitted automotive grade **battery charger** (or inverter of 800VA minimum) should be provided to enable charging of the supplementary batteries via external 220V AC supply whenever connected. A recessed external charge port with spring loaded lid (at least IP65 certified) suitable for connecting the external 220V AC power supply should be provided on the exterior of the vehicle at a suitable place. A 10 Meter length, Three (3) core, 10 gauge /equivalent charging wire with high quality male three pin ends to be provided. This wire should be housed at a suitable and easily accessible location in the Mortuary Van.

There should be a **cut-off switch** provided at a suitable location outside the patient cabin to isolate the non-OEM forward electrical circuit. This circuit breaker should be labelled and housed at an easily accessible location while also ensuring protection against accidental switching off.

There should be **short-circuiting as well as overload protection** through fuses / Mini-Circuit Breakers (MCB) for different segmented electrical installations in the non-OEM electrical circuit. The fuse rating should be mentioned on each fuse and three numbers of each fuse should be housed in the fuse box cover or at an appropriate place.

Adequate number of power receptacles / connections should be provided in the compartment to simultaneously power all the equipment's & fitments asked for in this document. The mountings of all electrical outlets shall be sturdy enough to handle wire/plug pressure and vibrations during transit. There should be at least one free automotive grade 12V DC receptacle provided in the patient & driver compartment each at an easily accessible location.

Electrical panels that are accessible to accidental contact shall have a protective cover, shield, and so forth, to prevent shorts that can result in injury, fire, or damage to the electrical system.

Electrical wiring and components shall not terminate in the oxygen storage compartment except for the oxygen controlled solenoid, compartment light, and switch plunger or trigger device. Wiring necessarily passing through an oxygen compartment shall be routed in a

Mortuary Van (Dead body) Compartment

An access window between Driver's Cabin and Mortuary Van Compartment should be provided at appropriate location for visual checks and voice communication between the cabin and compartment. This window should be latch able from the patient cabin side and should be transparent, shatter proof and shall have adjustable opening.

The interior paneling of the Mortuary Van compartment including sidewalls, partition between patient cabin and driver cabin, roof, door panels and all other surfaces in the compartment should be made from long life superior quality non halogenated C-1196HF as per NCD 1409 fire retardant Fiber Reinforced Plastic (FRP) in gel coat white colour, finished (no painting will be allowed) unless mentioned otherwise. There should be thermo insulation minimum 50 mm thick between the outer and inner panels of these vehicles for reduction of heat and noise within the patient compartment. The insulating material should be non-toxic, non-settling type, vermin proof, mild dew proof and non hygroscopic. The FRP wherever used, should have the following Characteristics:

Thickness - minimum 3.0mm□

Inbuilt colour (built in Gel technology panel)□

Fire retardant as per IS - 6746 of 1988 or latest equivalent as□ applicable

Sufficient reinforcement for holding the refrigerated box while in transit should be present.

Adequate provision for storage of consumables should be made by providing overhead racks

The floor (except the wheel humps) should be flat, anti-static & should be finished with minimum 1.6 mm thick Anti-skid PVC vinyl matting or FRP / ABS with Anti-skid coating.

Door: There shall be a 'two leaf' divided rear door at the rear end of the Mortuary Van compartment for entry and exit of personnel as well as loading and unloading of the dead body.

The door opening should be side-ways. Each door should be hinged at least at two places and should have firm latching provision. It shall be capable of being positively restrained in the open position. A "Door-Open" warning device shall signal (indicate in the cab) when doors are not closed. Each door shall have effective compression or overlapping seals to prevent leakage of exhaust fumes, dust, water, and air.

The doors of the patient's compartment shall be fitted with an appropriate mechanism to enable the

Lock and unlock from inside without use of a key;

Lock and unlock from outside with use of a key;

unlock from the outside using a key when the door is locked from the inside

Windows: In the carriage compartment, there shall be a minimum of two external windows. There shall be one on each side or one on the side and other at the rear. Windows shall be fitted with safety glasses complying with the requirements of IS: 2553 specified under Rule 100 of CMV (A) R, 1989. At least one of these windows should have a minimum opening size of 450mm x 550mm to act as emergency exit.

There should be three recliner seats with arm rest facing forward to be installed for attendants accompanying the dead body more over there should be one sleeping couch with mattress of minimum L X W of 1600mm X 500mm

A reliable, robust & easy to use Sterillium / Bactorub /equivalent alcohol based hand rub dispenser supporting standard off the shelf bottles of minimum 500 ml capacity should be provided at a suitable location which should be within easy reach of the attendants.

Concealed portable **dust bin** for waste disposal should be provided at suitable locations.

TECHNICAL SPECIFICATION FOR MORTUARY VAN (HEARSE VAN)

General Vehicular Design and Floor Plans:
This Mortuary Van should be CMVR approved Monocoque design and the vehicle manufacturer shall provide repair & servicing facilities for the base vehicle in the State. A certificate in this regard from the base vehicle manufacturer should be enclosed with the technical bid.

The design of the vehicle and the specified equipment shall permit accessibility for servicing/ replacement and adjustment of components / parts and accessories, with minimum disturbance to other components and systems. Also, the bidder shall ensure that sufficient reinforcement is provided to protect the components, assemblies, pipelines, tubing, wirings, etc which are susceptible to damage / hazards encountered during on-road operations of mortuary van.

The technical bid evaluation committee reserves the right to ask for additional information if necessary.

To provide maximum safety, the manufacturer shall locate vehicle mounted components, equipment and supplies in such a way so as to provide a vehicle that is laterally balanced and has front / rear loading that is proportional to axle loading.

A tolerance of ±5% shall be permissible in all dimensions / values mentioned in this document except in case of statutory requirements or parameters critical for patient care.

Overall Dimensions
The overall length of the Mortuary Van should not exceed 5500mm, excluding rear steps and bumper guard.
The overall width of the mortuary Van should not exceed 2000mm, excluding mirror, lights and safety accessories.
The overall height of the Mortuary Van should not exceed 2800mm
The finished floor (loading) height shall be a maximum of 700mm while ensuring that loading and unloading the Dead body from refrigerated box should happen seamlessly.
Footsteps/ Ramp should be provided appropriately in the rear door opening for loading/ unloading of dead body

Diesel Engine and Power Train
The diesel engine should meet requirements of CMVR and should be BS - IV compliant.
Should be a 4x4 wheel drive and should be suitable for continuous operation in tropical conditions with operative standard from minus 15 deg to plus 50 deg celcius.

Steering
Mortuary van should be fitted with power assisted steering system, for easy and comfortable steer ability of the vehicle at low and high speeds.

Tyres
The tyres should be Radial (with/ without tube) and appropriate for the finished vehicle's load, speed performance and durability. A spare wheel should be housed at appropriate place and indicated. The access to the spare wheel should be from outside the compartment. Incase the spare wheel is located below the mortuary van floor, an easy to use pulley lowering mechanism should be provided to enable quick access without removing the rear footstep.

Brakes
The vehicle should have ABS braking system.

Additional Requirements:

It is obvious that some minor modifications in the design and layout may be required by the user department and such changes should be incorporated in the final installation at no extra cost.

IMPORTANT NOTE FOR ALL ABOVE ITEMS:

1. Tenderer should not be black listed by any State or Central Govt. An affidavit to that effect will have to be submitted along with the tender.
2. The tenderer should furnish performance bank guarantee of 10% of the total value of the tender before the supply order is issued.
3. The bidder will provide demonstration of the following equipments to the technical team at the consignee site:

- Syringe pump
- Defibrillator
- Multipara monitor
- Ventilator
- Automatic collapsible stretcher cum trolley.
- Wheel Chair.
- Scoop stretcher.
- AC/ DC Suction Apparatus.
- Nebulizer

(European CE/FDA certificates of the quoted model of the above-mentioned items to be provided along with the tender).

The demonstration is compulsory and that too should be within two weeks from the date of tender opening. The total cost of the demonstration will be borne by the bidder.

4. The bidder shall be responsible for satisfactory installation of all equipments in the ambulance on consignee's site.
5. In case of imported equipments, the equipments will have to be got cleared from the customs authority by the tenderer at his own expenses. Custom duty (Counter veiling duty, special additional custom duty) etc., if any, levied by the Govt. will be paid by tenderer. No demurrage charges will be paid by the indenting organization for the delay in clearance.
6. Warranty of 2 years will have to be given for equipments and for fabrication of the vehicle. Vehicle should be stage-IV BS, having warranty for either 2 years or 1,50,000 KM whichever is earlier.
7. The bidder will submit catalogue of the equipment along with the tender.
8. The firm will submit the cost of CMC for a period of 8 years after the expiry of warranty. The cost of CMC will be considered for the evaluation of the bid.
9. The evaluation will be carried out on the basis of life cycle for the tender, considering CMC cost at the time of evaluation. The quantity may be increased and decreased before order is placed.
10. In case of any complaint/ defect in the equipments during the warranty period / CMC period the firm must attend the same within 24 hours from the date of lodging of first call (i.e. the response time) and must repair the same within 72 hours and in case of delay penalty @ 0.5% of the CMC value per day up to one week and @1% of the CMC value per day for subsequent period would be applicable and no CMC would be payable for the breakdown period on pro-rata basis.

- Goggles
- Pruning Saw

➢ **Fire Extinguisher 5 kg ABC type**
➢ **AC/DC Rechargeable search light.**

19. Oxygen Cylinders:

- 2 Nos. of D-type oxygen cylinders.

20. Transport Ventilator:

- Wall Mounted pneumatic transport ventilator, EN 1789 certified mount suitable for adults, Children's & infants up to 10 kg.

Modes of ventilation:

- Spontaneous
- CMV
- PEEP
- SIMV
- Drive Source: - Compressed air/oxygen
- FIO2: 100% Oxygen & Air mix mode (with approx. 45% to 100%)
- Equipment should be supplied with integrated carrying bracket for ambulance mounting as well as on ambulance cot, patient circuit, driving gas hose, peep valve & breathing valve (Transport ventilator kit).
- Should have airway pressure monitor & disconnect / flow pressure/high pressure alarm /
- Battery discharge or low.
- Battery back-up for at least 1 hour.

EQUIPMENT FOR ALS AMBULANCE:

- All equipment & accessories being used in the ambulance including those in the Oxygen Delivery System should be US Food and Drug Administration (US FDA) or European CE certified (where ever mentioned in the Technical Specification & Copy of the certificate to be enclosed along with the technical bid). EN certified copy for equipment be enclosed. Any wall/floor/roof mounted medical equipments to be fixed on OEM approved EN 1789 certified mounts (where ever mentioned in the Technical Specification above), must accompany with copy of individual certificates along with the technical bid & their positions should be clearly highlighted in the 3D drawings. Price list of all consumables, accessories & spares valid for a period of 2 years must be furnished along with the technical bid. (These prices will not be taken into account during the technical or financial bid evaluation) Unless specified otherwise, all the above equipment have to be supplied in ALS Ambulances. If multiple makes & models are quoted in the technical bid for any item, all makes & models must be fully compliant with the tender specifications, failing which, the technical bid shall be summarily rejected.

All the above 20 items should be able to withstand the rugged condition of the emergency usages and should be durable, even after repeated use.

The warranty of the equipment should include free replacement of battery on as and when required basis.

16. Vaccum Splints:

- Shall be of 3 sizes
- Malleable
- Medical grade, non absorbent, closed cell foam padding on one side and High quality, resilient open cell foam padding on the other side
- Shall offer immobilization support in favorable anatomical positions.

17. Emergency Kits:

Should have following items

- Manual Suction pump (foot operated)
- Oxygen cylinder – lightweight aluminum (2 lit and 5 lit water capacities: 1 each)
- Oxygen regulator
- Resuscitator bag
- Laryngoscope – standard – Infant, pediatric and adult.
- Magill forceps
- Endo tracheal tubes
- Oral Airway
- Sphygmomanometer with reusable BP cuffe infant, pediatric & adult: 2 each
- Stethoscope: 02 No.s
- Digital Thermometer: 02 No.s
- Diagnostic hammer
- Penlight
- Tongue Depressor
- Syringe infusion set (100 cm extension tubing + 11 cm extension tubing with 3 way stop cock
- I.V. Cannula
- Tourniquet
- First aid surgical devices -
- Elastic bandage
- Sterile Gloves
- Adhesive plaster

17. Extrication Equipment & Others:

- 12" Wrench Adjustable Open End
- 12" Screw Driver Standard Square Bar
- 8' Screw Driver Philips Head # 2
- Hacksaw with 12" Carbide Wire Blade
- Vise Grip Pliers 10"
- 5 lb Hammer with 15" Handle
- Fire Axe Butt 24" Handle
- Wrecking Bar with 24" Handle
- 51" Crowbar Pinch Point
- Bolt Cutter with 1" To ¼" Jaw Opening
- Shovel with Pointed Blade
- Tin Snips - Double Action 8" Minimum
- Gauntlets
- Ropes 5400 lb Tensile Strength in 50' Length in Bag
- Mastic Knife
- Spring Load Center Punch

- Bolus rate should be programmable to minimum 400-500ml/hr with infused volume capacity.
- Audio alarm after every 0.5ml delivered bolus
- Save last Bolus/infused rate even on power failure/switch off
- Display of drug name with provision of memorizing at least 5-10 drugs names
- KVO must be available with user selectable KVO
- Various occlusion pressure triggers levels
- Should work on commonly available syringe from 10-50 ml
- Automatic detection of syringe size
- Should alarm for wrong loading of syringe OR flanges out of slots etc.
- Should have inbuilt battery backup for at least 4 hours
- Should have comprehensive alarm package for OP limit exceed, Near end infusion, volume limit, KVO rate flow, Low battery, AC Failure

11. Defibrillator:

- Bi-Phasic with 3/5 lead ECG, light weight and latest model with a larger display.
- Low Energy Biphasic defibrillator with recorder having capability to arrest all arrhythmia, with energy or 150-200 joules.
- Work on Automated External Defibrillation (AED) mode.
- Built in 50 mm strip printer/thermal recorder.
- Battery backup for a minimum of 90 minutes.
- Wall mount for installation in Ambulance.
- Complies EN 1789.

12. Multi-Para Monitor

- Should monitor ECG, Respiration Rate, SPO2, NIBP with adult, pediatrics & neonatal reusable cuffe (2 each), Pulse & Heart Rate.
- Should have Colour LCD/LED display of size 8" or more.
- Wall mount for installation in Ambulance.
- Battery backup for a minimum of 90 minutes.

13. Nebulizer

- Atomizer (ultrasonic's) electric aspirator, Compressed air nebulizer
- Motion Tolerant and for continuous use in Pre Hospital.
- Operating voltage: 230 V AC with (preferred with Battery backup (with minimum 60 minutes backup)
- Maximum pressure 3.5 bar
- Air power: 14 liters per minute
- Aerosol output: 106 µ l per minute
- Residual volume: 1.24 ml
- Droplet size: MMAD 3.3 microns
- Filling volume : maximum 7 ml
- Noise level: 55 dBA
- In built thermal cut off systems may be desirable.
- Provision for fixing/mounting in the Ambulance desirable.

14. Hand held Glucometer

- Reputed Manufacturer Make.

15. Multiple stiff neck adjustable Collars

- Good quality material made (Quantity - 10 nos.)

- Load Capacity: 150 Kgs
- L x W x H: 1750mm x 400mm x 50mm
- Fixture and device complies with EN 1789.

4. **Wheel Chair:**
   - Should be light, safe and reliable. Made of Aluminum alloy.
   - Folded size 93X51X16 cm.
   - Back Height: 91 X 50 cms
   - Seat Height: 49 X 50 cms.
   - Net Weight: 8 Kgs.
   - Pull through, telescoping long handles built in to lift patients and carry them through narrow passages.
   - Loading weight: 159 kgs.
   - Complies with EN 1789

5. **AC/DC– Suction Pump Portable**
   - Body should be made of lightweight ABS Plastic
   - Flow Rate: 0 to 20 LPM on Mains/ Battery
   - Aspiration should be adjustable from 0.5 to 760 mm Hg with a valve control
   - Collection bottle 1000 ml capacity autoclavable.
   - Overflow protection ensured
   - Net Weight should not be more than 5.5 Kgs
   - Complies with EN 1789

6. **Ambu Bag Adult – Silicon** **2 Nos.**
   - 1600 ml adult self-inflating double ended silicone bag with mounts
   - Siliconized
   - Side feed oxygen inlet
   - Type "L" non-rebreathing valve
   - Size 4 Clearhood facemask with silicone cuff
   - 1.5 mtrs oxygen enrichment tubing
   - Carrying case

7. **Ambu Bag Child- Silicon** **2 Nos.**
   - 500 ml Self inflating double ended silicone bag with mounts
   - Side feed oxygen inlet
   - Type "L" non-rebreathing valve with pressure limiting device 40 cms of water
   - Size 0& 00 Circular Paed. All Silicone facemask
   - Reservoir Hose with Adaptor to provide higher oxygen & 1.5 mtrs oxygen enrichment tubing
   - Carrying case.

8. **Mouth to Mouth ventilation device:**
   - Adult, Child and Neonate of reputed manufacturer **1 each**

9. **Needle & Syringe Destroyer – Manual/ Electrical**
   - Maximum weight 2.5 Kgs
   - Motion Tolerant

10. **Syringe Pump:** **2 Nos.**
    - Flow rate programmable from 0.1 to 900 ml/hr or more with user selectable flow set rate

MEDICAL EQUIPMENTS FOR CRITICAL CARE AMBULANCE

Technical Specifications:

(All Equipment should be European CE/ US-FDA Certified, manufactured in ISO - 13485 certified facility and should comply with AIS-125 standards (EN1789, EN 1865 or 10 G)

1. **Automatic Collapsible Stretcher cum Trolley**
   - Multifunctional automatic stretcher with varied positions outside the ambulance. Using the most advanced technical skills to finish pulling the ambulance stretcher up to the ambulance automatically. It can easily adjust to various positions for emergency treatment under any complicated situations, especially compatible with ambulance environment.
   - Should be made of high strength Aluminum alloy.
   - Should be able to convert into stretcher from trolley automatically with levers manually.
   - Provision for head end elevation adjustable. Sitting posture for breathless patients - Maximum Angle of the Back 60°
   - Should have side Railings to prevent fall of patients either side and to hold medical equipment
   - IV fluid holding rod to go with the Stretcher
   - Sufficient straps in number to restrain the patient.
   - Fixing devices to secure the stretcher in place not allowing side to side or vertical movements in the ambulance while on run.
   - Gross weight should not be >50 kgs
   - Bearing Pressure or minimum load: 150 Kgs.
   - Product dimensions: Should not be less than 1950mm X 510mm X 960mm (Max.)
   - Product dimensions: Should not be less than 1950mm X 510mm X 320 mm (Min.)
   - Complies with EN 1789 & EN 1789/AIS-125
2. **Scoop Stretcher**
   - Should be light weight, safe and reliable.
   - Clutch Design/Locking device should be positioned off centre to allow easy closure from the patient head.
   - Adjustable length according to patient's height.
   - Easy to lock and unlock
   - Minimum 3 Quick release buckle belts
   - Net weight: not more than 10Kgs
   - Load capacity: I50kgs
   - Complies with EN 1789
3. **Spine board with straps with head immobilizer**
   - High Density Polyethylene - Single piece
   - Rigid, Light & Floatable
   - Resistant to bumps and corrosion
   - Non absorbent, immune to infiltrations
   - Easy to clean
   - X Ray & MRI compatible
   - Net weight: 9Kgs

submitted along with the technical bid must be approved by the appropriate purchaser authorities before commencement of prototype production. The Purchaser reserves the right to ask for appropriate changes in the patient compartment layout if not found suitable.

2. Preliminary Prototype Inspection: This shall be done after the prototype production is complete and the vehicle is ready to be sent for CMVR Homologation & other tests. This inspection shall be conducted by a multi-disciplinary committee formed by the Purchaser. This shall be done at the work unit where the ambulance is manufactured. All costs related to this inspection shall be borne by the Purchaser for the first visit. In case the vehicle is rejected in the first instance, all subsequent inspections shall be at the cost of the supplier subject to a maximum of two [1st Inspection + 2] additional opportunities to address the non-compliances identified. Inspection team will consist of 5 (five) to 7 (seven) members. Expense will be to & fro economy air fare, local conveyance, boarding and lodging of the inspection team for the inspection period.

3. CMVR Compliance certification & all other tests on the vehicle required to verify compliance with the tender document for the complete homologated ambulance with all equipments and fitments loaded. These reports shall be obtained by the bidder from any of the testing agencies specified in CMVR, 1989 & the bidder shall bear all costs related with the same.

4. Final prototype inspection for verifying compliance with all non-CMVR & other special requirements specified herein this tender document. This inspection shall be conducted by a multi-disciplinary committee formed by the purchaser. This inspection may be conducted at the testing agency or at another location decided by the Purchaser. All costs related to this first inspection shall be borne by the Purchaser. In case the vehicle is rejected in the first inspection, all subsequent inspections shall be at the cost of the supplier subject to a maximum of two [1st Inspection + 2] additional opportunities to address the non-compliances identified. Inspection team will consist of 5 (five) to 7 (seven) members. The bidder will furnish all necessary documents, test reports and compliance certificates to the inspection committee. The decision of this Committee shall be final and binding in all respects and is not subject to dispute. In case the final prototype is not approved by the technical committee. The tenderer has to take written approval of the final prototype approved from the purchaser before going for serial production of ambulances. This final approved prototype shall be retained by the supplier till the end as a reference and will be the last ambulance to be rolled out to complete the order. All supplies are to be made as per the prototype finally approved by the purchaser. Standard quantity of consumables coming with the equipment package should be supplied if not mentioned in the tender enquiry. However, purchaser is not bound to purchase the consumables from the bidder only.

5. Fully fabricated Ambulance should be ARAI certified and should comply National

and vibrations during transit. There should be at least one free automotive grade 12V DC receptacle provided in the patient & driver compartment each at an easily accessible location. All switches, connectors, end-wiring should be rated to carry out minimum 125% of their maximum ampere load. All wiring should confirm to ISI-2645 specification or its equivalent. The wiring shall be permanently colour coded or marked the entire length of the wire for identification with easily readable numbers and letters, or both, and routed in conduit. When cables are supplied by a component manufacturer to interconnect system components, these cables need not be continuously colour coded/identified. They shall be coded/ identified at the termination or interconnection points. All added wiring shall be located in accessible, enclosed, protected locations and kept at least 150 mm away from exhaust system components. Except for those on large wires, such as battery cables, terminals shall be machine crimped to the wiring. A ratchet type hand crimper may be used where it is not possible to use a large machine crimper. Battery cable terminals, component terminals and connectors exposed to the ambient shall be coated with terminal corrosion preventive compound. Electrical panels that are accessible to accidental contact shall have a protective cover, shield, and so forth, to prevent shorts that can result in injury, fire, or damage to the electrical system. Electrical wiring and components shall not terminate in the oxygen storage compartment except for the oxygen controlled solenoid, compartment light, and switch plunger or trigger device. Wiring necessarily passing through an oxygen compartment shall be routed in a metallic conduit. 220V AC supply in patient compartment is not mandatory. However, 220V AC charging circuit for battery is mandatory.

Radio Frequency Interference (RFI):
The ambulance electrical / electronic and mechanical equipment in running mode / on condition, should meet the Radio Frequency Interference standards [Electro Magnetic Interference (EMI) AIS– 004-1999] or latest equivalent standards.

Emblems, Marking & Colour Scheme:
Complete body exterior should be uniform white in colour. All external marking should be retro reflective in nature and materials used for the same should meet or exceed the requirements of ASTM D 4956, Standard Specification for Retro-reflective sheeting for Traffic Control, Section 6.1.1 for Type I Sheeting. Guidelines in regards to Emblems and Markings for Ambulances issued by the Government from time to time shall be applicable. However, the quality parameters of the markings indicated above shall remain constant.

Operating Manuals, etc.
Comprehensive User Manual/s written in simple English with detailed parts description, Operating instructions, service contact numbers, etc for the Base Vehicle, Patient/Driver Compartment Equipments, Fittings etc shall be provided. These should be printed on high quality paper and housed in water-resistant pouches. Laminated sheets, clearly showing the Patient and Driver Cabin Layout with location of equipment, fittings, switches, consumables, etc suitably depicted should be fixed in the patient and driver cabinet suitable locations. Laminated sheet showing the non-OEM electrical wiring diagram complete with location of various fuses and circuit breakers should be displayed in the vehicle at a suitable location.

Quality Assessment and Inspection:
One prototype of the ALS Ambulance to be introduced into operations must be approved in a pre-bid meeting before being taken up for serial production. Each ambulance prototype shall undergo a four step inspection and verification process to ensure compliance with the technical specifications contained herein:
1. Theoretical compliance based on documents & drawings furnished along with the technical bid. The ambulance design and layout proposed by the bidder in the drawings

In addition to the signalling and lighting requirements as per the CMVR, the ambulance should
have the following lighting fitments (12V):
LED based flashing lights with top red lens having minimum four LED flashers visible on both sides of the ambulance (integrated or enclosed in a light bar) mounted on the roof top. The LED flashers should flash cyclically using appropriate flashers.
At least two LED flashers & one spot lamp on both sides of the ambulance as well as two flashers& a rear loading lamp on the rear wall of the ambulance mounted at the highest position feasible. (The rear loading light shall automatically be activated when rear doors are opened.)

Interior Patient Compartment Illumination:
There should be diffused flicker free automotive grade (12V, minimum 4000 deg Kelvin) Lighting in the patient compartment. All interior lighting shall be flush mounted and should not get loose or fall down during vehicle movement or vibration. Normal white illumination within the patient compartment without outside ambient light shall not be less than 100 Lux (lx) when measured along the centre line of the clear floor; and 150 lx on at least 90% of the surface area of the primary patient cot. At least one patient compartment light and rear loading lamp shall be automatically activated when the patient compartment rear doors are open.

Electrical System:
The electrical system should be of uniform specification across all ALS Ambulances. There shall be two independent forward electrical circuits in the ambulance: the OEM-Base Vehicle Circuit and the non-OEM electrical circuit. At no point shall the forward OEM base vehicle circuit be tampered with to provide for any non-OEM electrical load requirements. Each ambulance should have additional 'supplementary battery(s)' / UPS sufficient enough to power them on-OEM electrical load requirements of the homologated vehicle. These batteries should be located at a suitable location outside the patient compartment and should be automatically charged by the vehicle alternator while the vehicle is on and via 220V external AC supply if connected when stationary. The alternator of the base vehicle should have the current rating which is atleast 10% higher than the peak current consumption of the fully equipped ambulance. (Including current for charging of the batteries, running of air conditioning system as well as all the medical and no medical devices etc.). A permanently fitted automotive grade battery charger should be provided to enable charging of the supplementary batteries via external 220V AC supply whenever connected/ needed. A recessed external charge port with spring loaded lid (at least IP65 certified) suitable for connecting the external 220VAC power supply should be provided on the exterior of the vehicle at a suitable place. A 10 meter length, Three (3) core, 10 gauge / equivalent charging wire with high quality male three pin ends to be provided. This wire should be housed at a suitable and easily accessible location in the ambulance. There should be a cut-off switch provided at a suitable location outside the patient cabin to isolatethe non-OEM forward electrical circuit. This circuit breaker should be labelled and housed at an easily accessible location while also ensuring protection against accidental switching off. There should be short- circuiting as well as overload protection through fuses / Mini-Circuit Breakers (MCB) for different segmented electrical installations in the non-OEM electrical circuit. The fuse rating should be mentioned on each fuse and three numbers of each fuse should be housed in the fuse box cover or at an appropriate place. Adequate number of power receptacles/ connections should be provided in the patient compartment to simultaneously power all the equipment's & fitments asked for in this document. The mountings of all electrical outlets shall be sturdy enough to handle wire/plug pressure

inadvertently changed. It should maintain accurate readings and calibrations during ambulance operation and not be affected by the temperature conditions. Changing from one cylinder to the other should not affect the distribution pressure in any way and this changeover should occur automatically or Manually without stepping out of the ambulance. In case of manual change over, an audible and visual alarm system to be provided when the duty cylinder is getting empty. The patient cabin must have a digital/mechanical display for oxygen supply status. The display panel should be certified for use with Medical Oxygen and should have three individual values displayed so as to constantly indicate the pressure level of both the cylinders as well as the distribution pressure level. Minimum two medical oxygen outlets for the primary patient, flush with right side wall (distance between patient head and oxygen outlets to be less than 890 mm) to be provided. These duplex outlet stations should be certified for medical oxygen and should be appropriately labeled. Oxygen outlet stations shall be installed with sufficient vertical & horizontal space to accommodate attachment of flow meters, humidifiers, and nebulizers.
The oxygen outlets should be universal in design to be able to accommodate the probe of the oxygen flow-meter and the probe of the driving gas hose of the ventilator directly in one single action without any intermediate connectors and adapters.

Noise:
Noise testing of patient compartment will be as per AIS: 020. Noise level should be less than 80 dB in patient compartment.

Air-Conditioning:
The AC unit should be installed at a suitable location in the patient cabin to ensure there is no
Congestion in the driver/patient cabin. With all windows & doors closed, the system should be capable of lowering the cabin temperature to a maximum of 26 degrees Celsius within 30 minutes from 35 degrees Celsius ambient temperature. The gas used for Air conditioning should be environment friendly as per International regulatory requirements. The AC should be of Split function i.e. it should be able to heat up the cabin besides cooling with a temperature range operative from Minus 15 deg to plus 50 Deg Celsius and should be able to maintain adequately required temperature within the cabinet keeping in view the demographical stature of the state. The engine idling rpm should be so designed and tuned to fulfil the requirements of AC Unit. To ensure proper ventilation in case of AC failure, at least two of the patient compartment window should be opening outside.

Preferable: (i) Air conditioning of Driver cabin
(ii) Company fitted AC.

Siren:
All siren loudspeakers have to be mounted on the front of the vehicle. Hidden installation is allowed. The main sound direction must be in driving direction. Permitted are wail and yelp signals that cycle between 10-18 respectively 150-250 per minute at a sound pressure level of 110dB(A)to 120dB(A). The frequency range must be at least one octave and should be between 500Hz and 2000 Hz. and additional electronic air horn can be used. Further there should be a public address system that can be worked at all times ergonomically from the driver's seat. The siren switch can only be used if the warning lights are on.

Exterior Special Lighting and Illumination:

vii) Should be supplied with suitable accessories to fix the supplied portable oxygen cylinder.

viii) One number of folding IV Poles should be provided.

ix) The stretcher mattress should be water proof and upholstered with fire proof material.

x) The stretcher should be able to be guided in and out of the ambulance without any part of the stretcher (including the legs) striking any part of the ambulance body including the rear footstep. The loading angle of the stretcher should not be more than 16 degrees. If required, a suitable loading platform (not necessarily be made of ABS) may be provided to ensure the same.

xi) Should be European CE or US FDA certified.

A foldable seat for the Doctor/Paramedic should be installed facing towards the rear of the patient compartment & it should be near to the primary patient's head for easy accessibility. This seat should have adequate restrains for the passenger and should be fitted with foldable arm rests.

A Squad bench with backrest suitable to accommodate minimum five sitting patients or folding/scoop stretcher shall be installed along the side wall. A minimum 50 mm thick high-density cushion to be provided for comfort. The squad bench should be upholstered with waterproof washable cover and should have adequate restrains for the sitting patients as well as the stretcher.

Grab Rail made of stainless steel pipe with proper support / fixing, for ease in entering shall be installed in the ceiling. Minimum two IV hooks or holders to be provided at suitable locations to ensure proper patient care. A reliable, robust & easy to use Sterillium/Bactorub/equivalent alcohol based hand rub dispenser supporting standard off the shelf bottles of minimum 500 ml capacity should be provided at a suitable location which should be within easy reach of the doctor/paramedic. Concealed portable dust bins for waste disposal should be provided at suitable locations. Two numbers of multipurpose fire extinguishers of ABC Type (ISI marked & conforming to BIS: 15683-2006 or latest) duly filled, capacity and quantity as per the provisions of Central Motor Vehicle Rules 1989 should be provided. One fire extinguisher shall be placed in the Driver's cabin and the second in patient's compartment, at appropriate location, where it is easily visible and symbolized. All fitments/equipment/ outlets/ switches/ storage spaces, etc in the patient compartment should be permanently & clearly labelled in English. The font used should be easily readable and in contrasting colour of the background.

Oxygen Delivery System:

The ambulance shall have piped medical oxygen system (manifold) capable of storing and supplying medical grade oxygen. The manifold should have two oxygen cylinders which should be at least D-type. The cylinders attached to the manifold should be individually changeable from outside the patient compartment and a cylinder changing wrench should be housed at an appropriate location. The manifold should be so designed that it shall ensure proper fixation of cylinders during travel and should ensure easy cylinder changing and positioning. There should not be any electrical connection in near vicinity or inside the oxygen cylinder housing, except pressure regulator integrated with flow control valve. These cylinders should be individually connected to a pressure regulator each in such a way that one cylinder acts on duty and the other as a stand-by. Both these regulators should be capable of reducing the cylinder pressure to a static outlet pressure of 4.12 bars / 60 psi and should include a safety relief valve and a locking mechanism to prevent settings from being

with appropriate self-restraining mechanism to arrest the inadvertent opening of the unlocked drawers unless pulled while the vehicle is in motion. The floor (except the wheel humps) should be flat, anti-static & should be finished with minimum 2mm thick two component PU coating with anti-scratch treatment or 2 mm thick Anti-skid PVC vinyl matting or FRP/ ABS with Anti-skid coating. The ambulance interiors must comply with the requirements of AIS: 047 and should be suitable for easy cleaning, scientific fumigation & treatment with disinfectants. Joints if any should be flushed, seamless, hermetically sealed, waterproof & easy to disinfect. All interior materials shall comply with the fire safety requirements as per AIS: 125.

Door:

There shall be a 'two leaf' divided rear door at the rear end of the patient compartment for entry and exit of personnel as well as loading and unloading of the ambulance cot with 260 degree or more of opening. This door shall not be less than 1170 mm in height with minimum width of 1120 mm and the door opening should be side-ways or bottom to top. Each door should be hinged at least at two places and should have firm latching provision. It shall be capable of being positively restrained in the open position. A "Door-Open" warning device shall signal (indicate in the cab) when doors are not closed. Each door shall have effective compression or overlapping seals to prevent leakage of exhaust fumes, dust, water, and air.

The doors of the patient's compartment shall be fitted with an appropriate mechanism to enable the following:

lock and unlock from inside without use of a key;

lock and unlock from outside with use of a key;

unlock from the outside using a key when the door is locked from the inside

Windows:

In the patient's compartment, there shall be a minimum of two external windows. There shall be one on each side or one on the side and other at the rear. The windows shall be positioned or screened to ensure patient's privacy when required. Windows shall be fitted with safety glasses complying with the requirements of IS: 2553 specified under Rule 100 of CMV (A) R 1989. Atleast one of these windows should have a minimum opening size of 450mm x 550mm to act as emergency exit.

All medical equipment should comply with AIS: 125

Specifications and Ambulance Cot as per specifications detailed below:

i) Roll-in Self Collapsing Ambulance Cot.

ii) The Ambulance Cot including all accessories should be EN 1865 Certified.

iii) The cot should be supplied with an EN 1789 certified fixation system.

iv) The stretcher assembly excluding the mattress & other accessories should be less than or equal to 50 kg in weight.

v) The stretcher should load seamlessly and no manual intervention vis-a-vis the locking mechanism, wheels etc. should be required after loading in the ambulance to close the rear doors.

vi) Should have at least three strap-type restraining devices (chest, hip, and knee) to prevent longitudinal or transverse dislodgment of the patient during transit.

Physical Dimension & Electrical requirement of GPS System:
Dimensions (H x W x D): 60 mm x 185 mm x 175mm, Weight - 1.5Kg, voltage range - 108 to 15.6 V DC, Current consumptions - Idle/Rx/TX - 0.6 / 1 / 1.3, Multi slot PD (4 slot) - 3A, using
USB host - adds 0.5A

Body Structure:
Ambulances of Monocoque design should have body structure as per CMVR. In case sandwich panels are used in the body structure, the walls, ceiling, flooring and doors shall be made of joint less sandwich elements meeting or exceeding the following specifications:
Outer & Inner Skin- Minimum 1.5 MM Thick, Traffic White (RAL 1016, R-252, G-255, B-255) dyed Glass fiber laminates with high standard gel coat layer based on isophthalic acid with UV stabilizer.
CFC free, high performance, rigid polyurethane block foam/equivalent, minimum 44 mm thickness.
Fire retardant equivalent to IS - 6746 of 1988 or latest equivalent as applicable.

Patient Compartment:
Patient Compartment volumetric space shall be sufficient in size to transport occupants and accommodate/ store all equipment & fitments specified. The length of the patient compartment measured from partition to the inside edge of the rear loading door at the floor level shall be at least 3100 mm or more. The length should provide at least 640 mm and not more than 760 mm of unobstructed space at the head of the primary patient, when measured from the face of the backrest of the Doctor's/ Paramedic's Seat to the forward edge of the stretcher. The minimum width of the compartment when measured at the centre point of the patient compartment shall be not be less than 1500 mm and should provide 460 ± 150mm clear aisle walkway between stretcher/ cot and the base of squad bench, with the cot located in the street side (non-centred) position. The patient compartment shall provide at least 1520 mm height over the primary patient area, measured from floor to ceiling panels.
An access window between Driver's Cabin and Patient Compartment should be provided at appropriate location for visual checks and voice communication between the cabin and patient compartment. This window should be latchable from the patient cabin side and should be transparent, shatter proof and shall have adjustable opening. The interior paneling of the patient compartment including sidewalls, partition between patient cabin and driver cabin, roof, door panels and all other surfaces in the patient compartment should be made from long life superior quality UV-resistant ABS/FRP unless mentioned otherwise (as per AIS: 125 standard). The material used should have the following characteristics:
Thickness – minimum 3.0 mm
Inbuilt color
Fire retardant as per IS - 6746 of 1988 or latest equivalent as applicable.
Sufficient reinforcement for holding the wall mounted equipment securely while in transit should be present on the side walls. Unobstructed access & full functionality of the fittings/equipment as required for optimal patient care must be ensured in this compartment. Adequate provision for storage of medicines/consumables/equipment should be made by providing lockable cabinets & drawers. These should be made from non-wood & non-ferrous fire retardant material preferably ABS/FRP in sync with the ambulance's internal look and feel. The drawers should be on guide ways & should be provided

The overall height of the ambulance should not exceed 2800 mm including roof mounting equipment (viz. A/C etc.) and excluding Radio Antenna.
The vehicle should have ground clearance not less than 180 mm.
The finished floor (loading) height shall be a maximum of 750 mm while ensuring that one person should be able to load and unload the supplied fully loaded ambulance cot into the ambulance seamlessly without the requirement of physical lifting of the cot at any end. Footsteps should be provided appropriately, if the patient compartment floor is more than 46 cm above the ground. This step should have transverse length equivalent to the door opening. If there is more than one step, the steps should be equidistant. The steps shall not be located or exposed to the interior of the ambulance, even when the rear door is closed. The step tread shall have minimum clear depth of 130 mm and max. depth of 270 mm. If the steps protrude more than 18 cm from the rear the vehicle, fold-up steps should be provided. Footsteps if folding in nature must be linked to the respective door of the patient compartment and must fully deploy automatically when the said patient compartment door is opened.

Diesel Engine and Power Train:
The diesel engine should meet requirements of CMVR and should be BS IV compliant. It should
be possible to maintain a sustained speed of 90 km/hrs for the complete homologated ambulance with air-conditioning on & all equipment, fitments & occupants loaded over dry, hard surfaced, level roads. It should produce minimum 75BHP power and should be able to accelerate the complete homologated ambulance from 0 km/h to 70 km/h within 40s, when tested in accordance with IS: 11851-1986 as prescribed in AIS:125.
In view of demography of state, the operative standard of vehicle should be from -15 Deg to +50 deg

Steering:
Ambulance should be fitted with power assisted steering system, for easy and Comfortable steer ability of the vehicle at low and high speeds as per CMVR.

Tyres:
The tyres fitted on the ambulance as per the type approval of the designated testing agency at the time of homologation, appropriate for the finished vehicle's load, speed performance and durability as specified in CMVR. A spare wheel should be housed at appropriate place and indicated. The access to the spare wheel should be from outside the patient compartment. In case the spare wheel is located below the ambulance floor, a suitable mechanism should be provided to enable quick access without removing the rear footstep.

Suspension:
The suspension should be suitably reinforced if required to provide adequate ride comfort for the occupants.

Wireless & GPS System:
Suitable provision to be made for fitment of wireless and GPS equipment on all the vehicles including electrical requirements. The bidder will provide the wireless and GPS instruments to be mounted on the prototype.

SPECIFICATIONS FOR CRITICAL CARE AMBULANCE

General Vehicular Design and Floor plans:

This ambulance should be either of CMVR/Equivalent international designated testing authority Approved monologue design. The vehicle manufacturer shall provide repair & servicing facilities for the base vehicle in J&K. (A certificate in this regard from the base vehicle manufacturer should be enclosed with the technical bid). The ambulance should be designed, built and complete with operating accessories as specified herein. The assembly, sub-assembly and equipment should be integrated in such a way so as to enable the vehicle function in a reliable way and in a sustained fashion with durability and ensuring safety and comfort to patient and team. The design of the vehicle and the specified equipment shall permit accessibility for servicing /replacement and adjustment of components / parts and accessories, with minimum disturbance to other components and systems. Also, the bidder shall ensure that sufficient reinforcement is provided to protect the components, assemblies, pipelines, tubing, wirings, etc. which are susceptible to damage / hazards encountered during on-road, off road operations of ambulance. The emergency medical care vehicles, including base vehicle, equipment, devices, medical accessories and electronic equipment should be brand new standard commercial products, tested and certified to meet or exceed these specifications. The bidder should enclose all necessary brochures, certifications and proofs in this regard along with the technical bid. The technical bid evaluation committee shall base its opinion on the enclosed documentary proofs with regard to compliance with the specifications asked for and may summarily reject the technical bid if adequate supporting documents are not enclosed with the technical bid or any of the furnished documents are found to reflect factually incorrect information. The technical bid evaluation committee reserves the right to ask for additional information if necessary including demonstration.
The vehicle should comply to National Standards laid down for Ambulances under National Ambulance Code AIS: 125 Standard notified by the Ministry of Road Transport & Highways.

Vehicle Operation, Performance and Physical Characteristics:

The complete homologated ambulance with all equipment and fitments loaded should fully Comply with all requirements of CMVR (as per the latest amended applicable on the date of submission to the test agency). A certificate in this regard from any of the testing agencies specified in CMVR,1989 should be furnished at the time of final prototype inspection. (The bidder shall bear all costs related to CMVR certification of the complete prototype ambulance.)

The bidder must furnish this tender & a copy of the technical bid document along with the CMVR certification request letter while submitting it to the testing agency. A certificate should be obtained from the test agency, explicitly mentioning that the vehicle tested for CMVR compliance was an ambulance with all equipment and fitments loaded as per the specifications contained herein this tender and all non-medical technical parameters (including those contained herein this tender document in addition to those required for CMVR compliance) have also been duly verified or tested as per the technical bid & the tender documents. To provide for maximum safety, the manufacturer shall locate vehicle mounted components, equipment and supplies in such a way so as to provide a vehicle that is laterally balanced and has front / rear loading that is proportional to axle loading. A tolerance of ±5% shall be permissible in all dimensions / values mentioned in this document except in case of statutory requirements or parameters critical for patient care.

Overall Dimensions:

The overall length of the ambulance should not exceed 5500 mm, excluding rear steps and bumper guard.

The overall width of the ambulance should not exceed 2100 mm, excluding mirror, lights and safety accessories.

Documents Establishing Tenderer's Eligibility and Qualifications

The tenderer shall furnish, as part of its tender, relevant details and documents establishing its eligibility to quote and its qualifications to perform the contract.

Documents establishing good's Conformity to TE document.

The tenderer shall provide in its tender the required as well as the relevant documents like technical data, literature, drawings etc. to establish that the goods and services offered in the tender fully conform to the goods and services specified by the purchaser in the TE documents. For this purpose the tenderer shall also provide a clause-by-clause compliance on the technical specifications and other technical details incorporated by the purchaser in the TE documents to establish technical responsiveness of the goods and services offered in its tender.

In case there is any variation and/or deviation between the goods & services prescribed by the purchaser and that offered by the tenderer, the tenderer shall list out the same in a chart form without ambiguity and provide the same along with its tender. If a tenderer furnishes wrong and/or misguiding data, statement(s) etc. about technical acceptability of the goods and services offered by it, its tender will be liable to be ignored and rejected in addition to other remedies available to the purchaser in this regard.

1. The Tenderer has to be a "Specialist fabricator of Mortuary Van or Mobile Medical Solutions"
2. In all the above cases the specialist fabricator should have minimum experience of Fabricating and supplying similar mobile Van in past in FRP/ABS
3. The Tenderer should have Plant and Machinery to fabricate Mortuary van. The tenderer company should be ISO 9000:2008, ISO 14001:2008 for fabrication of Mobile Health Solutions.
4. The tenderer should enclose satisfactory performance certificate of mobile Health Solutions supplied in any one of the last three completed financial years, duly signed and stamped by the end user.
5. The tenderer should submit the technical drawings for the layout, side, back and top view along with major individual components as mentioned below. The tenderer should submit technical literature/ certificates/ catalogue / datasheets etc. along with technical compliance sheet mentioning Make/Model of the offered fabrication components.

The technical evaluation of bids will be done on the basis of above.

Mubassir Latifi,JKPS
AIG(Provision /Transport)
PHQ J&K Jammu.

Draft BOQ for the guidance of SO-e procurement

S.No	Item No	Cost	Taxes/duties	Other Charges	Total
1.	Critical care Ambulance with all the accessories/equipments				
2.	Hearse Van with all the accessories/equipments				
3.	AMC of Critical care Ambulance for 4th year				
4.	-do- for 5th year				
5.	-do- for 6th year				
6.	-do- for 7th year				
7.	-do- for 8th year				
8.	AMC of Hearse Van for 4th year				
9.	-do- for 5th year				
10.	-do- for 6th year				
11.	-do- for 7th year				
12.	-do- for 8th year				